

KILN-HOUSES A. GRÜNWALD

WIENER-NEUSTADT / AUSTRIA

FOREST SEED COLLECTOR, GREATEST SPECIALIST IN FOREST SEEDS

MEMBER OF THE AMERICAN ASSOCIATION OF NURSERYMEN, THE AMERICAN TREE ASSOCIATION ETC.

ESTABLISHED 1868

WIENER-NEUSTADT, October 1931.

I have pleasure in presenting my dear friends and customers my pricelist for 1931/1932 in the hope it will prove of use to them. I thank them for all past favours and solicit their patronage and co-operation for the future. My firm has been doing the tree seed business these 63 years and I may say that my seeds enjoy a high reputation throughout the world and that I am now the leading forest tree seed exporter in Europe.

The seeds I offer as home-production are carefully collected by my people from selected, vigorous trees, extracted in my own plants and conscientiously tested before leaving my establishments. The other seeds gathered in Europe are harvested by hundreds of collectors expressly trained for that work and closely controlled by my staff. The seeds from far-away countries and from over-sea come from most trustworthy sources.

I take all possible care to serve my customers with such seeds as fit the regions for which they are destined. The origin of the seeds is continually controlled by the Austrian State.

To give you an idea of the reliability and choice quality of the material I distribute, I quote but three letters of approbation, — FROM AMONG THOUSANDS OF THE LIKE, — spontaneously written by customers:

The Assistant State Forester of the Dept. of Conservation, Div. of Forestry, INDIANAPOLIS, Ind. writes: "We have obtained excellent germination results from the seed purchased last year and expect to order . . ." and again: "Your excellent seeds have been received . . ."

The Nekoosa Edwards Paper Company, PORT EDWARDS, Wis. write: "Your seed was planted during the middle of May and germinated exceptionally well. Your seed has proved very satisfactory and we wish to compliment you on the high quality of seed you people sell."

The Wm. E. Attwood Co., LAKEWOOD, Ohio write: "The seeds on your recent invoice arrived in wonderful condition . . ."

These letters prove both my earnest will to give efficient service and the satisfaction experienced by my customers. Come and I shall serve you the same way!

My first consideration is quality and I spare no expense in securing the best seeds obtainable. AS I AM OF OPINION THAT IN THE PRESENT TIME OF GENERAL DEPRESSION WE OUGHT TO HELP ONE ANOTHER, I HAVE GREATLY REDUCED MY PRICES AND RESTRICTED MY OWN EARNINGS TO THE UTMOST. I EMPHASIZE, HOWEVER, THAT THE QUALITY IS AS GOOD AND RELIABLE AS IT HAS BEEN THESE 63 YEARS.

I honestly wish to satisfy you and to merit your confidence!

TERMS AND CONDITIONS.

PRICES: They are given in U. S. Gold Dollars and cents free Wiener-Neustadt. Packing- and forwarding (shipping)-expenses are not included, they are charged separately at cost-price. Less than 500 lbs. are calculated at 100 lbs. rate, less than 25 lbs. at 1 lb. rate. Less than 1 lb. addition of 20%. Less than 2 ozs. cannot be sold.

Prices subject to change and prior sale. This catalogue cancels all previous prices.

PAYMENT: 5% discount is allowed for orders accompanied with cash for the full amount. Unknown correspondents remit cash or mention references. For parties of approved credit special terms on agreement. Credit charges usually carry a 10% advance over my regular prices.

ORDERS: All orders are booked on the distinct understanding: "SUBJECT TO CROP OR SHORT SUPPLY BEYOND MY CONTROL." My acceptance is always subject to the yield of crop. Order early to avoid possible disappointment.

SHIPPING: Please give full shipping-instructions. Otherwise best judgment will be used in forwarding the goods, which travel at consignee's risk. I take no risk for damage in transit.

LIABILITY: While using every effort to supply all seeds of true stocks and high germinating faculty, I give no warranty expressed or implied as to description, quality, productiveness, percentage of growth or any other matter, there being too many causes known and unknown which prevent good seeds from germinating. If the goods are not found satisfactory on arrival, my customers are requested to notify me at once, otherwise I do not hold myself responsible.

Any errors in filling orders will be carefully corrected. I like to have orders placed on the basis of mutual understanding and confidence.

Send me the names of any of your friends to whom you think my Catalogue may be useful!

IMPORTANT NOTICE FOR U. S. A.:

The Government of the United States prescribes a special permit for importing seeds the number of which let me know to prevent delays and annoyances. For small quantities I recommend mailing in post-parcels, in which case there should be a separate permit.

If you have no permit please advise and you will get your seeds through my forwarding-agents.

HOME-PRODUCTION

Evergreen obtained in my Extraction-Plants, fitted with up-to-date machinery. The origin of the seeds is warranted by the continual control of the Austrian State.

(All my seeds are accompanied by inspection-certificates of the Seed Experimental Station of the Austrian State.)

germina-purity 1000 lbs. 100 lbs. 1 lb. U. S. \$ per lb.

ABIES pectinata, European Silver Fir 60% cut 90% —08 —10 —12

Origin: hill districts 600—1600 ft. above the sea, mountains of medium height 1600 to 3300 ft. above the sea.

Most suitable for the planting of mountainous regions of 600—4500 ft. in light and deep soil of all kinds, enduring calcareous soil. Height 140 ft.

JUNIPERUS communis, Common jun. new crop fruits . . . —03.5 —05 —07

*) If ten tons or more are required, ask special offer cif American harbour.

LIBRARY RECEIVED JUL 13 1932 U. S. Department of Agriculture

germina-purity 1000 lbs. 100 lbs. 1 lb. U. S. \$ per lb.

PINUS montana uncinata, Swiss Mountain Pine . . . 80% 95% 1'30 1'45 1'70

Origin: Denmark.

PINUS pinea, Italian Stone Pine*) 80% 97% —09 —11 —14

Origin: Coastal ranges of the Adriatic, Italy.

PINUS Strobus, Weymouth's Pine . 80% 92% —90 1'— 1'20

Origin: hill districts 600—1600 ft. above the sea, mountains of medium height 1600 to 3300 ft.

PINUS sylvestris, Scotch Pine . . 90% 95% —90 1'— 1'20

Origin: Austria, hill districts, beneath 1600 ft.

Czechoslovakia, hill districts, beneath 1600 ft.

Germany and Poland, hill districts beneath 1600 ft.

var. rigensis . . . 85% 94% 1'50 1'65 2'—

Origin: Finland, Scotland.

Thrives in silicious, argillo-silicious, gravelly or calcareous soils, provided they be sufficiently deep.

Very valuable for the re-afforestation of very bad soil. Successfully used for the planting of peaty ranges. Height 100—140 ft.

Communicate please from which ranges and elevations you wish to get your seeds!

germina-purity 1000 lbs. 100 lbs. 1 lb. U. S. \$ per lb.

ABIES amabilis, amabilis fir . . . 60% 90% —16 —18 —23

Origin: Alps, high mountains above 3300 ft.

PINUS halepensis, Aleppo pine . . 90% 97% —35 —60 —70

Origin: Coastal ranges of the Adriatic, Italy.

PINUS laricio var. corsica, Corsican Pine . . 90% 97% 1'30 1'45 1'70

Origin: Italy . . . 97% —07 —09 —12

Atlantic coast . . . 95% —11 —13 —16

PINUS montana mughus, Manybranched Mugho Pine . . . 95% 1'30 1'45 1'70

Origin: Alps and Riesengebirge (Giant Mountains).

Bushy arbutus, suitable for the laying out of picturesque gardens and for afforestation in great altitudes.

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GRÜNWALD'S APPARATUS

for testing and estimating the value of all forest- and agricultural seeds, kinds of corn, etc., 1 piece \$ 2.20, 10 pieces \$ 20.—, 100 pieces \$ 160.—

Glass plate . . . \$ 1.—

Spare germinating plate (terra-cotta plate) . . . —30

This apparatus consists of an earthenware-plate, on which there is a germination-sheet of porous clay, the top-side of which shows one hundred trough-shaped hollows, the so-called germination-cells, for receiving the single seeds. A glass-bell serves to cover this sheet.

Before using the apparatus put the germination-sheet for half an hour in water to get the pores well soaked.

Then place into each cell one grain of the seed to be tested. The sheet is covered with the bell and is kept moist by pouring some water into the glass-plate in intervals from one to two days, according to the temperature of the place where the apparatus is kept standing.

After use it is good to clear the germination-sheet with a brush in hot water.

CONIFEROUS TREE SEEDS (EVERGREENS)

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CEDRUS atlantica glauca . . . 2'— 2'40

deodara, Deodar . . . —80 —90 1'10

libani, Cedar of Lebanon . . . 1'10 1'25 1'50

CEPHALOTAXUS drupacea, Jap. plum-yew . . . —45 —50 —60

Fortunei . . . —55 —60 —70

masculata (pedunculata) . . . —60 —70 —90

CHAMAECYPARIS:

Lawsoniana, Port Orford cedar . . —60 —70 —90

aureo . . . 1'60 2'—

aureo variegata . . . 1'60 2'—

pyramidalis . . . 1'60 2'—

var. pendula glauca . . . 1'— 1'10 1'30

nutkaensis (Thuopsis borealis) . . . 2'— 2'30 2'70

yellow cedar . . . 1'— 1'10 1'30

(Retinospora) obtusa, Hinoki cypress . . . 1'— 1'10 1'30

(Retinospora) pisifera, Sawara Retinospora . . . 1'30 1'45 1'70

(Retinospora) pisifera var. filifera . . . 5'—

plumosa . . . 7'—

rosa . . . 8'—

CRYPTOMERIA japonica . . . —90 1'— 1'20

var. elegans . . . 2'— 2'40

var. Lobbi . . . 2'— 2'40

CUNNINGHAMIA sinensis . . . 2'50 3'—

glauca . . . 5'— 6'—

CUPRESSUS:

australis, Australian cypress . . . 1'60 1'80 2'20

Benthami, Beatham cypress . . . 2'— 2'40

var. arizonica, Arizonica cypress . . . 3'— 3'60

funebri, weeping cypress . . . 1'— 1'10 1'30

glauca pendula . . . 1'10 1'20 1'50

Goveniana, Gowen cypress . . . 1'— 1'10 1'30

HORIZONTALIS, spreading cypress . . . —15 —20 —25

Knightiana vel elegans . . . 2'— 2'40

Lindleyi, Lindley cypress . . . 2'— 2'40

lusitanica vel glauca . . . —90 1'— 1'20

MacNabiana, Macnab cypress . . . 2'50 3'—

macrocarpa vel Lambertiana, Monterey cypress . . . 1'20 1'35 1'70

CUPRESSUS sempervirens pyramidalis, pyramidal Italian cypress . . . —15 —20 —25

CUPRESSUS sinensis . . . 2'— 2'40

torulosa . . . —90 1'— 1'20

var. Coreanica . . . 2'40 3'—

neyana . . . 2'— 2'40

Triomph de Boekoop . . . 2'40 3'—

GINKGO biloba, maidenhair-tree . . —15 —20 —25

JUNIPERUS: bermudiana fruits . . . 1'50 1'80

bermudiana, clean seeds . . . 15'— 18'—

chinesis fruits (Fine ornamental juniper.) . . . —60 —70 —90

chinesis, clean seeds . . . 1'50 1'70 2'—

communis, common juniper. *) . . see home production

var. pyramidalis fr. . . —20 —25 —30

var. pyramidalis, clean seeds . . . 1'50 1'70 2'—

drupacea fruits . . . —60 —70 —90

clean seeds . . . 4'50 5'— 6'—

excelsa, high savin fruits . . . —45 —50 —60

clean seeds . . . 1'50 1'70 2'—

japonica fruits . . . —55 —60 —70

clean seeds . . . 2'— 2'20 2'60

litoralis (creeping juniper.) fruits . . . 1'50 1'80

clean seeds . . . —25 —30 —40

macrocarpa fruits . . . 2'— 2'20 2'60

clean seeds . . . —40 —45 —55

nana (montana) fruits . . . 3'— 3'30 4'—

oxycedrus fruits . . . —10 —12 —

